Determine the convergence or divergence of the following series:

$$1. \sum_{k=2}^{\infty} \frac{3^k}{5^k + 2k}$$

$$2. \sum_{m=3}^{\infty} \frac{2m}{7m+18}$$

$$3. \sum_{j=5}^{\infty} \frac{(j-2)!}{(j-1)!}$$

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